### Quantum 830 Valve

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

# Value Priced Valve for High Purity Applications:

Parker Hannifin Corporation's Veriflo Division presents the 830 valve for use in solar and semiconductor applications. The 830 has many of the 930 Series valve features but at a lower price point.

Like the 930 valve, the 830 diaphragm valve is made from "Vericlean", Veriflo's low sulfur high purity 316L Stainless Steel, which enhances electropolishing, welding, and corrosion resistance

### **Contact Information:**

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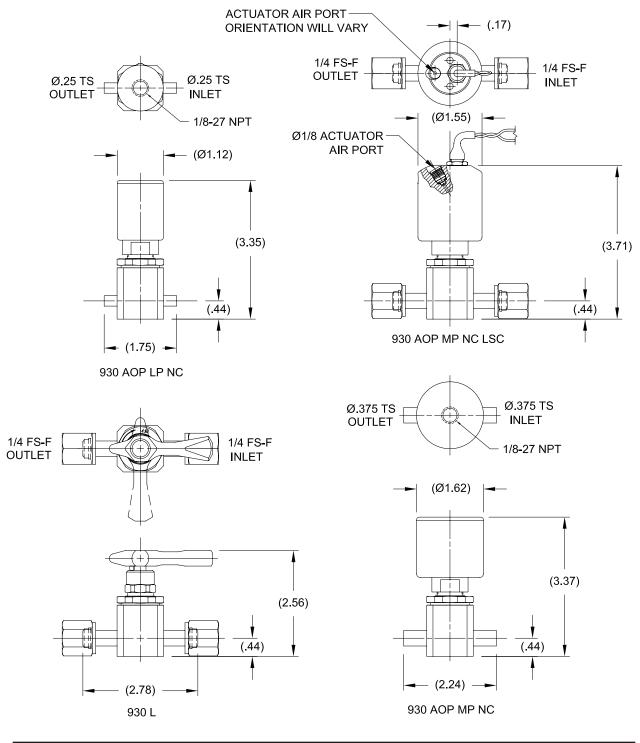
#### **Product Features:**

- Standard surface finish 10 micro inch Ra with flash EP.
- Internally threadless and springless.
- Fully functional from vacuum to 125 psig (for low pressure Air Operated Actuator), 300 psig (for manual and Medium pressure Air Operated Actuator versions.)
- 100% Helium leak tested.

- Aerodynamic, fully swept flow passages.
- Minimal particle generation and particle entrapment areas.
- Change from air operated actuator to lever or visa versa without intruding into wetted area.
- Maintains key dimensions of Veriflo's 930 valve.

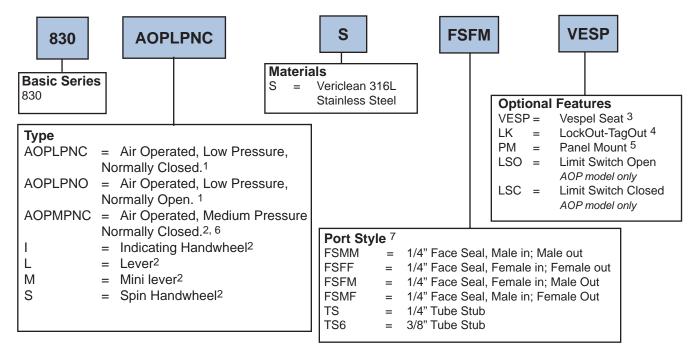
## Quantum 830 Valve

### DIMENSIONAL DRAWING



Safety Guide and Installation and Operating instructions available at www.parker.com/veriflo

# Ordering Information



#### NOTES:

- 1. 125 psig (8.6 Barg) max pressure
- 2. 300 psig (20.7 barg) max pressure
- 3, Recommended for Nitrous Oxide (N2O) Service.
- 4. LockOut-TagOut clamp for M type valves
- 5. Not available with indicating handwheel (I) or AOP type valves.
- 6. AOPMPNC available with normally open & normally closed limit switch
- 7. 2 port and 3 port configurations are available.

For 3 port, see 4504 Valve Selection Guide for A, B, C, F, G, M configuration selections.

#### OFFER OF SALE:

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# **830 Series Specifications**

Materials of Construction	
Wetted	
Body	"Vericlean", Veriflo's custom high purity
	type 316L Stainless Steel™
Seat	PCTFE, Optional Vespel®
Diaphragm	Elgiloy <sup>®</sup> or equivalent
Non-Wetted	
Nut	316L Stainless Steel
Cap	316L Stainless Steel
<b>Operating Condition</b>	ons
Max. Pressure	
AOP, LP	125 psig (8.6 barg)
AOP, MP/Manual	300 psig (20.7 barg)
Min. Pressure	Vacuum
Temperature:	0°F to 150°F (-18°C to 66°C)
Bake Out	250°F (121°C) in the open position
Functional Performance	
Flow Capacity by	Туре
All AOP and	
handwheel	C <sub>v</sub> 0.3
Lever, Mini-lever	
and Indicator knob	C <sub>v</sub> 0.22
Design	
Leak Rate	
External	≤2X10 <sup>-10</sup> scc/sec He, In board method
Internal	≤1X10 <sup>-9</sup> scc/sec He
Proof Pressure	
AOPLP	188 psig (13 barg)
AOPMP, L, I, M, S	450 psig (31 barg)
Burst Pressure	
AOPLP	375 psig (26 barg)
AOPMP, L, I, M, S	900 psig (62 barg)

Standard Configuration	
Face Seal (FS):	Any configuration of Face Seal male
	and/or female fittings.
Length	Face Seal Gland to Gland
1/4"	2.78 <sup>+</sup> 0.02 in. (70.6 <sup>+</sup> 0.5 mm)
Length	Tube Stub Inlet & Outlet End to End
1/4"	1.75 <sup>+</sup> 0.02 in. (44.5 <sup>+</sup> 0.5 mm)
3/8"	2.24 <sup>+</sup> 0.02 in. (56.9 <sup>+</sup> 0.5 mm)
See 4504 Valve Se	lection Guide for 3 port
configuration option	ons.
Internal Volume	2.64 cc (including face seal fittings)
Surface Finish	10 micro inch with flash EP
Approx. Weight	1.75 lbs. (.80 kg)





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